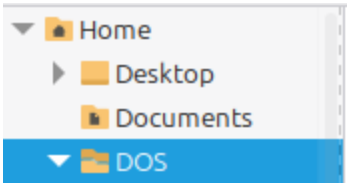
HOW TO GET MICROCADAM RUNNING ON LINUX MINT IN DOSBOX-X

1. On your Linux Mint system, install DosBOX-X

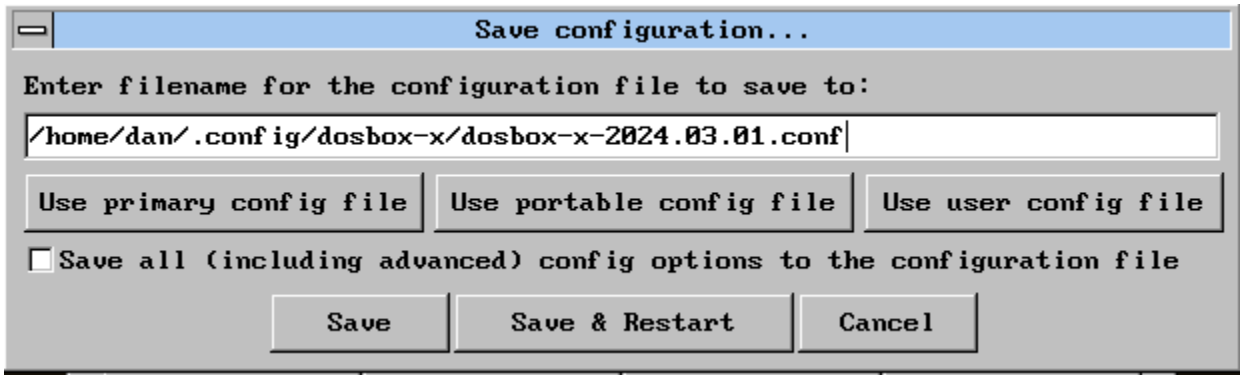
See Linux websites if you need help.

2. DOSBOX-X requires that you create a folder for DOSBOX-X. My folder is called DOS



3. Later on we will mount this DOS folder and call it drive C:

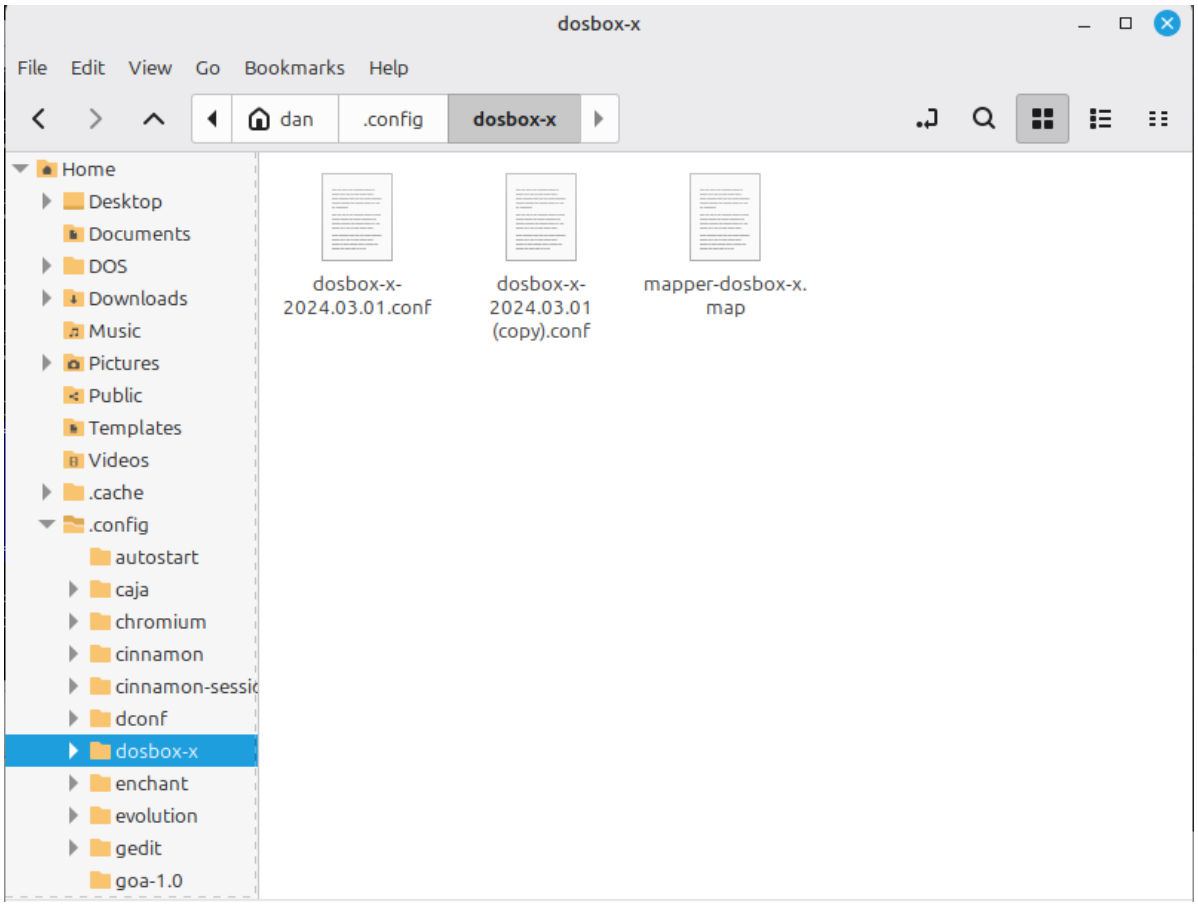
4. Here is the location of your DOSBOX-X configuration file:



Note that my user name is “dan” and under that folder is a hidden file (the “.” dot in front of the name means it is a hidden folder/file).

To show hidden files do a right click on your file folder page and toggle on “Show Hidden Files”

5. Here is what the folder looks like:



Here is the hidden DOSBOX-X config folder. and inside it you can see the DOSBOX-X configuration file called “dosbox-x-2024.03.01.conf” Make a copy of this file before you start editing it.

6. Here is how you edit the config file so that MICROCADAM will run in the DOSBOX-X window:

```
rem         = This section is DOS's CONFIG.SYS file, not all CONFIG.SYS options supported
break       = off
numlock     =
shell       = Z:\COMMAND.COM
dos         = high, umb
fcbs        = 100
files       = 200
country     =
lastdrive   = a
set path    = Z:\;Z:\SYSTEM;Z:\BIN;Z:\DOS;Z:\4DOS;Z:\DEBUG;Z:\TEXTUTIL
set prompt  = FILES=20
set temp    =
install     =
installhigh =
device      =
devicehigh  =

[autoexec]
# Lines in this section will be run at startup.
# You can put your MOUNT lines here.
mount c ~/DOS
C:
C:\devload C:\MCADAM\DRIVERS\MSMOUSE.SYS /G:MOUSE
C:\devload C:\MCADAM\DRIVERS\IBMAFH.SYS
C:\devload C:\MCADAM\DRIVERS\HRVGA.SYS
C:\devload C:\MCADAM\DRIVERS\HPGL.SYS
C:\devload C:\MCADAM\DRIVERS\GSSCGI.SYS
@ECHO OFF
PROMPT=$p$g
PATH=C:\;C:\DOS;C:\MCADAM;C:\MCADAM\BIN;C:\MCADAM\GIMSAMPL;Z:\;Z:\SYSTEM;Z:\BIN;Z:\DOS;Z:\4DOS;Z:\DEBUG;Z:\TEXTUTIL
SET MCADAM= /dMOUSE /c03F8 /s050
SET JOURNAL=C:\MCADAM\
SET PLOT_ID=7475
SET PAPER_SIZE=34X44
MCDISK
REM
REM PLACE YOUR BUS MOUSE DRIVER ON THE NEXT LINE
REM
C:\MCADAM\MOUSE
C:
CD \MCADAM
MENU
```

The config.sys and autoexec.bat portions of this DOSBOX-X config file are found at the end of the file. The config.sys file is first (because it has to load first) and the autoexec.bat file is second.

Comments on the file edits:

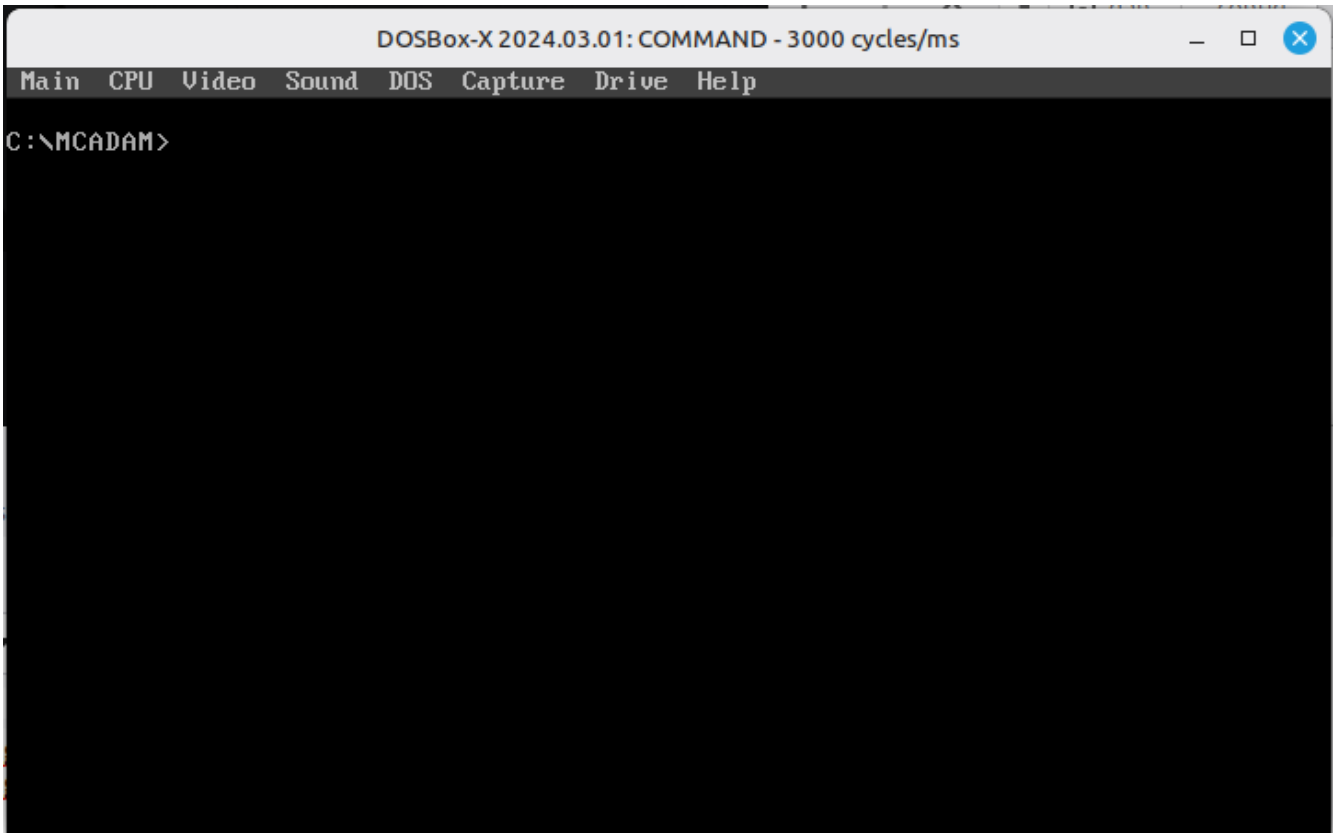
a. Shell = Z:\Command.com is on drive Z because DOSBOX-X automatically creates drive Z and loads their version of command.com there.

b. “mount c ~/DOS” This is where in the autoexec.bat file we mount the created DOS drive and make it drive C: The MCADAM folder is installed on drive C (i.e. C:\MCADAM)

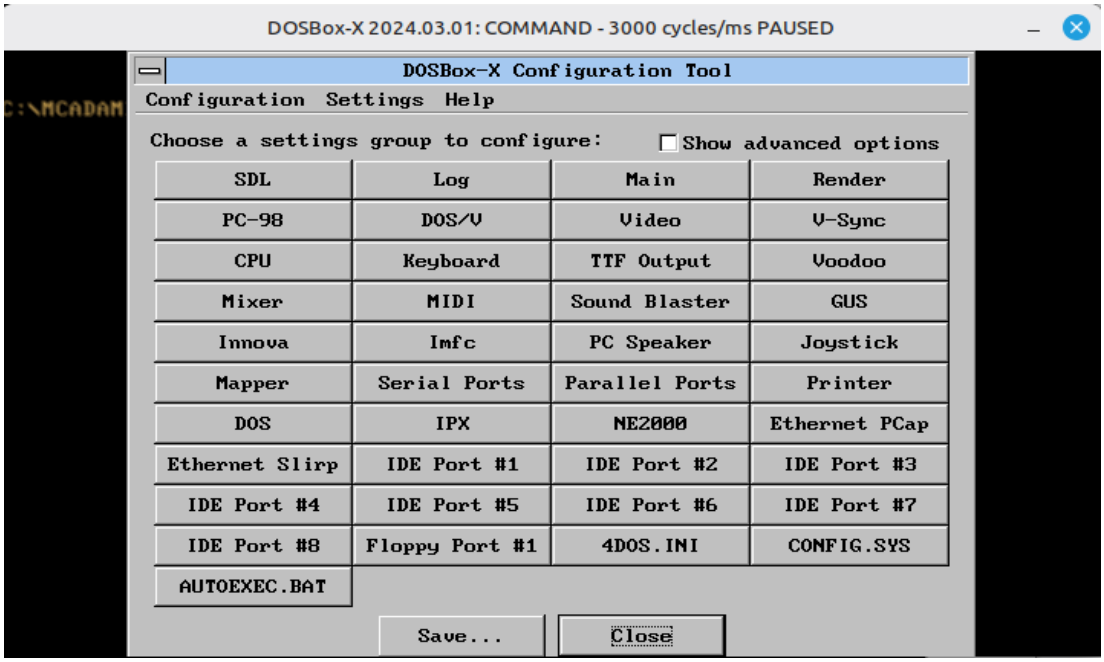
c. Normally we mount the MCADAM device drivers in the config.sys file, but because we can only mount drive C in the autoexec.bat portion of the file (i.e. after config.sys loads), we are unable to do this. We will use the “devload” **shareware utility** to load the config.sys device drivers in the autoexec.bat. Example: “C:\devload C:\MCADAM\DRIVERS\MSMOUSE.SYS /G:MOUSE”

d. When you run MCADAM you may get the message “Disk Full” when you try and file a drawing. This is because MICROCADAM was designed to run on older computers with small drives, and can’t manage larger drives. We use the **shareware utility** MCDISK to “lie” to MICROCADAM that the disk size is ok to write to.

7. Here is an image of DOSBOX-X setup and configured to run MICROCADAM:

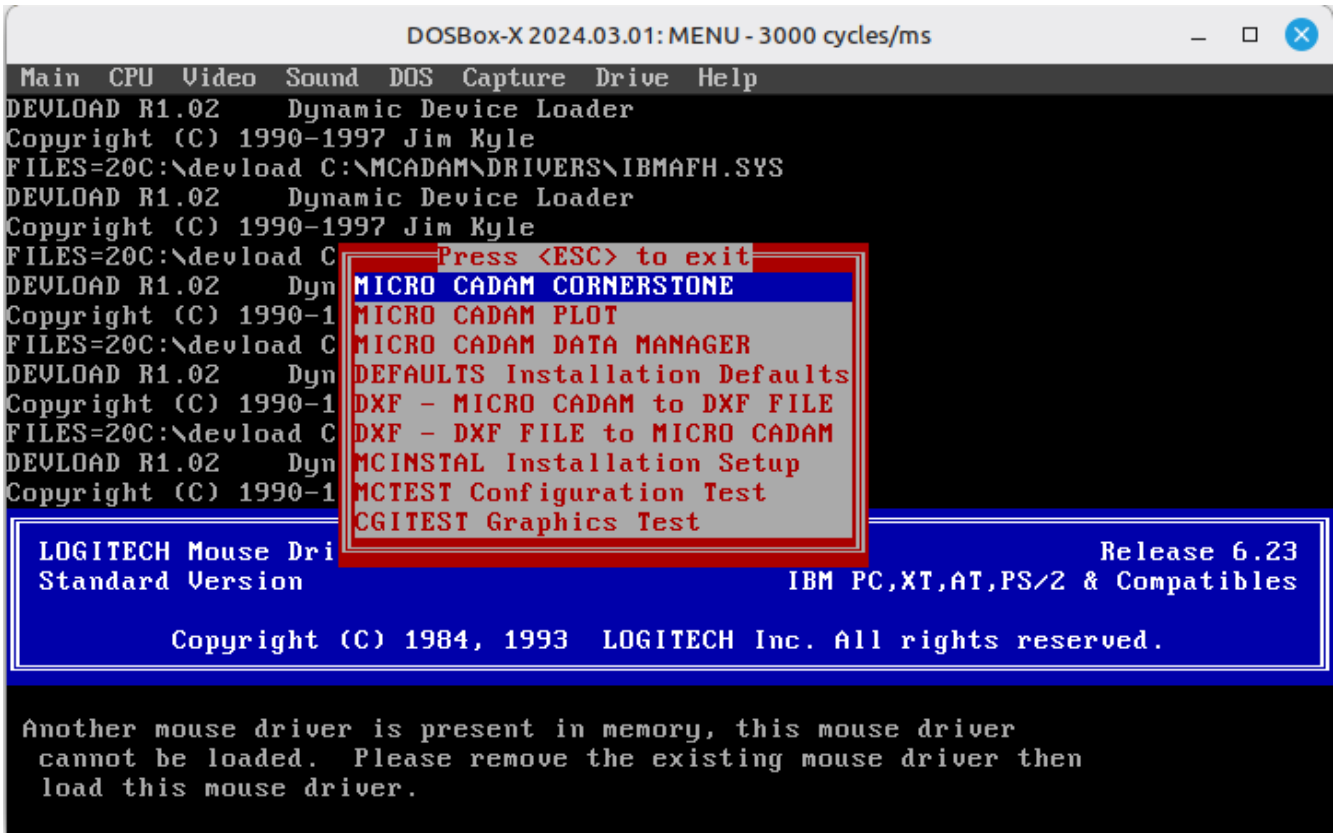


Note that there is a submenu at the top of the screen. If you select “Main” and then “configuration tool” then you will see this popup menu appear, which allows you to make “on the go” changes to the DOSBOX-X config file (this is the same file that we were editing manually)

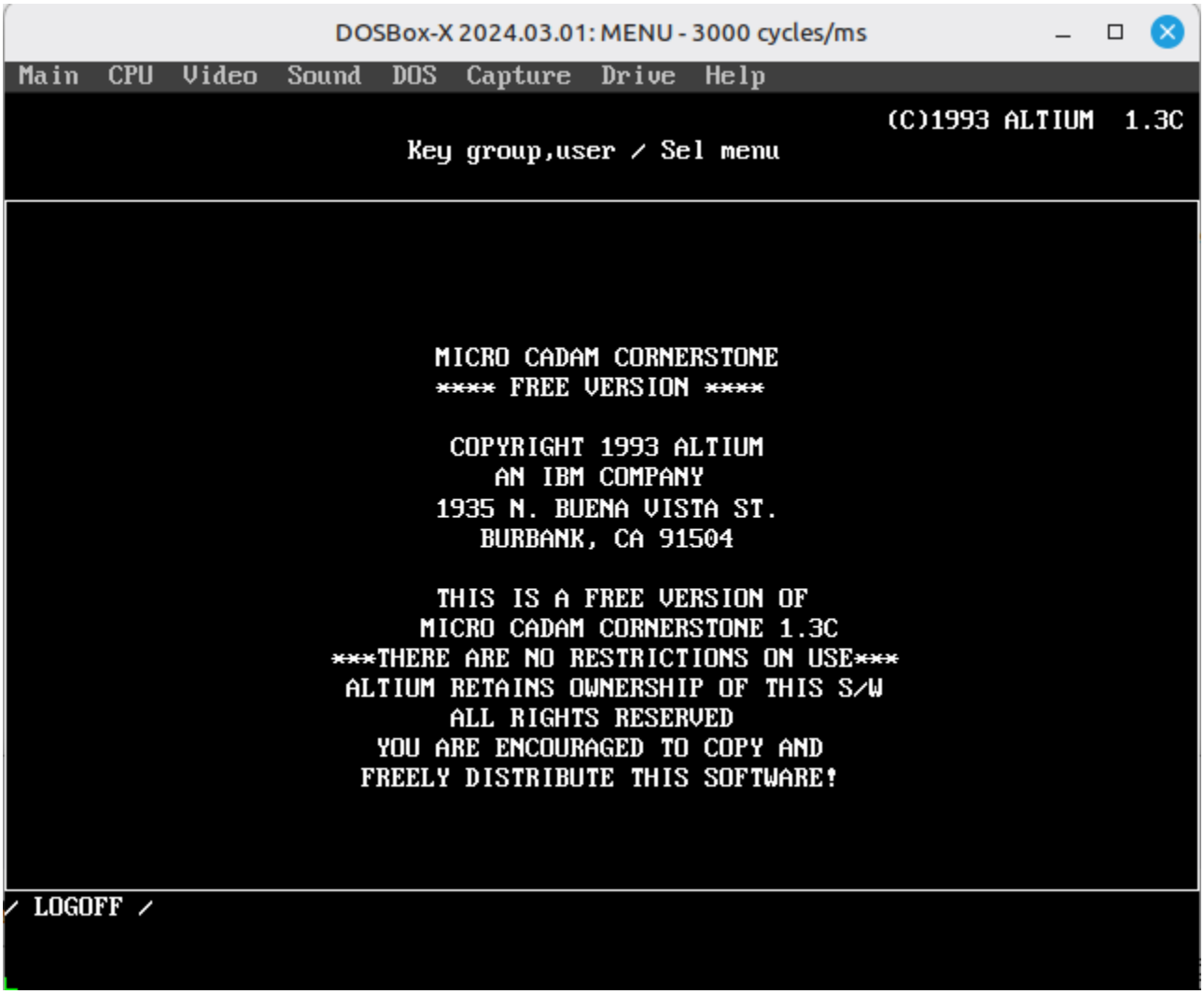


8. Once DOSBOX-X is setup and drive C is mapped, copy all of the files in the \MCADAM directory to C:\MCADAM

9. Start DOSBOX-X and you should see this screen:



Note that MICRO CADAM CORNERSTONE is highlighted. Press the enter key. You should now see the logon screen for MICRO CADAM CORNERSTONE:



10. MOUSE BUTTONS

MICROCADAM works with a 3 button mouse. In the original DOS program these buttons were: Left button SELECT. Middle button INDICATE. Right button Y/N.

These buttons work a little differently in DOSBOX-X.

Left button is SELECT
ESC button on keyboard is INDICATE (only works like this inside the MICROCADAM pgm)
Right button is Y/N

The middle mouse button toggles between two modes: Either graphic mode to use MICROCADAM (note small green cross that will stay inside MICROCADAM) or Linux mouse mode (note cursor moves all around the screen.

Note that you can still press F1 keyboard button to pop up the function keybox. You can also press CTRL-F1 to toggle on the sidebar menu if you wish.

This actually works well because your left hand can rest on the keyboard and both the ESC and F1 key are in the same location and easy to press to run MICROCADAM.

Summary:

F1 keyboard key pops up MICROCADAM menu
F2 keyboard key is Y/N
F3 keyboard key forces screen redraw
CTRL-F1 toggles sidebar menu. Then F1 toggles it on and off (usually it stays always on)
ESC keyboard key is INDICATE

Left mouse button: SELECT
Middle mouse button: Toggle between Micro CADAM mode (small green cross) and linux mouse mode
Right mouse button: Y/N